

Claims**WHAT IS CLAIMED IS:**

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1. An electrical connector system, comprising:  
an electrical connector adapted to receive a mating connector; and  
5 a temperature sensor on said electrical connector for detecting a  
temperature of the mating connector.
  2. The electrical connector system as recited in claim 1, wherein the  
electrical connector includes an opening for receiving the mating  
10 connector, said temperature sensor extending into said opening.
  3. The electrical connector system as recited in claim 1, wherein said  
electrical connector comprises an electronic card connector.
  - 15 4. The electrical connector system as recited in claim 3, wherein said  
electronic card connector includes a conductive cover having an aperture  
therein, said temperature sensor extending into said aperture.
  5. The electrical connector system as recited in claim 4, wherein said  
20 cover includes a tab associated with said aperture, said temperature  
sensor mounted to said tab.
  6. The electrical connector system as recited in claim 5, further  
comprising an eject mechanism for extracting the mating connector.
  - 25 7. The electrical connector system as recited in claim 6, wherein said  
temperature sensor remains a distance away from said eject mechanism.

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14. The electrical connector system as recited in claim 9, further

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comprising a flexible circuit, said temperature sensor mounted to said flexible circuit.

15. The electrical connector system as recited in claim 14, wherein said  
5 flexible circuit extends along said frame.

16. An electrical connector system for an electronic card, comprising:  
an electrical connector;  
a frame associated with said electrical connector;  
10 a temperature sensor associated with said frame to detect a  
temperature of the mating connector; and  
a transition board, said electrical connector and said temperature  
sensor connected to said transition board.

17. The electrical connector system as recited in claim 16, wherein said  
connector and said temperature are discretely connected to said  
transition board.

18. The electrical connector system as recited in claim 16, further  
20 comprising a flexible circuit secured to said transition board, said  
temperature sensor mounted to said flexible circuit.

19. The electrical connector system as recited in claim 18, wherein said  
flexible circuit extends along said frame.

20. A method of monitoring a temperature of an electronic card in an  
electrical connector mounted to an electronic device, comprising the steps

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sensing the temperature of the electronic card; and  
transmitting the temperature of the electronic card to the electronic  
device.

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21. The method as recited in claim 20, wherein the electronic card communicates with the electronic device through the connector, said transmitting step independent of the communications between the connector and the electronic device.

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22. The method as recited in claim 20, wherein the connector includes a transition board, said transmitting step occurring through the transition board.

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